Week 1 (9/15, 9/17): Introduction, Laplace equation

Week 2 (9/22, 9/24): Harmonic functions, Properties of harmonic functions

Week 3 (9/29, 10/1): Maximum principles

Week 4 (10/6, 10/8): Maximum principles, Existence techniques I

Week 5 (10/13, 10/15): Existence techniques I

Week 6 (10/20, 10/22): Existence techniques II: Parabolic methods, The heat equation

Week 7 (10/27, 10/29): Parabolic methods, The heat equations

Week 8 (11/3, 11/5): Reaction-Diffusion equations

Week 9 (11/10, 11/12): ***Midterm***, Reaction-Diffusion equations

Week 10 (11/17, 11/19): Hyperbolic equations, The wave equations

Week 11 (11/24, 11/26): Hyperbolic equations

Week 12 (12/1, 12/3): Semigroups, The heat equation

Week 13 (12/8, 12/10): Semigroups

Week 14 (12/15, 12/17): *HAPPY WEEK*

Week 15 (12/22, 12/24): Weak solutions, The Dirichlet principle

Week 16 (12/29, 12/31): Variational methods

Week 17 (1/5, 1/7): Variational methods

Week 18 (1/12): ***Final exam***